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Prepn. of granular detergent with high bulk density - by kneading and comminuting detergent mixt. contg. potassium alkylaryl sulphonate, and covering with fine, water insol powder

Patent Assignee: LION CORP (LION)

Inventor: HARA N; NAGOH K; NAKAMURA M; TAI Y

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3617756	A	19861211	DE 3617756	A	19860527	198651 B
JP 61272300	A	19861202	JP 85116033	A	19850529	198702
JP 62000598	A	19870106	JP 85141092	A	19850627	198706
US 4970017	A	19901113	US 88285377	A	19881216	199048
JP 94031430	B2	19940427	JP 85116033	A	19850529	199415
JP 94031431	B2	19940427	JP 85141092	A	19850627	199415
DE 3617756	C2	19950119	DE 3617756	A	19860527	199507

Priority Applications (No Type Date): JP 85141092 A 19850627; JP 85116033 A 19850529; JP 8587448 A 19850425

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 3617756	A		36		
JP 94031430	B2		5	C11D-011/00	Based on patent JP 61272300
JP 94031431	B2		4	C11D-011/00	Based on patent JP 62000598
DE 3617756	C2		16	C11D-017/06	

Abstract (Basic): DE 3617756 A

A granular detergent compsn. is prepd. by (a) kneading detergent components, contg. at least 10 wt. % of K alkylaryl sulphonate, to form a kneaded, solid detergent mixt., (b) comminuting this mixt. and (c) covering the comminuted compsn. with water-insol., finely divided powder particles with prim. particle size not above 10 microns.

ADVANTAGE - The bulk density of the compsn. is high (e.g. at least 0.6 g/cc), dispersibility and solubility in cold water are better, powder properties are good, prodn. of dust is reduced, less energy is needed in drying, or no such energy is needed, and there is no need for additives which have no washing or cleaning effect. (36pp Dwg. No. 0/4)

Abstract (Equivalent): DE 3617756 C

Prodn. of a granular detergent compsn. with a high packing density, comprises kneading the detergent components, which include at least 10 wt. % potassium alkylaryl sulphonate (I), to form a kneaded, solid mixt.; reducing the mixt. to small particles; and coating the particles with water-insol. fine particles (II) of average dia. 10 microns or less.

Pref., (I) is 8-18C alkyl-benzene sulphonate; and (II) are particles of calcium stearate, magnesium stearate, aluminium silicate, CaCO₃, MgCO₃, magnesium silicate, SiO₂ or TiO₂. The detergent particles have dia. 0.3-2 mm.

ADVANTAGE - The detergent has a density of 0.6 g/cm³ or more, improved dispersibility and solubility in cold water, and less dust formation during prodn. Energy is not normally required for drying the particles.

Dwg. 0/4

Abstract (Equivalent): US 4970017 A

Granular detergent compsn. is produced by (a) kneading detergent ingredients contg 100% or more of potassium alkylaryl sulphonate to form a solid mixt.; (b) disintegrating this; then (c) coating with 0.5-5 wt. % of water-insoluble finely-divided powder particles of dia. 10 microns or less.

Pref. (a) includes (8-18C) alkyl-aryl sulphonate. Water-insoluble particles are derived from calcium or magnesium stearate or -carbonate, aluminium- or magnesium silicate, SiO₂ or TiO₂.

ADVANTAGE - Has high bulk density. (9pp)

Derwent Class: D25; E12

International Patent Class (Main): C11D-011/00; C11D-017/06

International Patent Class (Additional): C11D-001/12; C11D-001/22;

C11D-003/12; C11D-003/20